

● EPODOC / EPO

PN - JP9077900 A 19970325
PD - 1997-03-25
PR - JP19950260691 19950913
OPD - 1995-09-13
TI - PRODUCTION OF HYDROPHILIC POLYETHYLENE FINELY POROUS FILM
IN - KAIMAI NORIMITSU; MIYASAKA KENJI; IZUMI YUZO
PA - TONEN SEKIYUKAGAKU KK
IC - C08J9/22

● WPI / DERWENT

TI - Mfg. hydrophilic polyethylene@ fine porous film - by graft polymerising acryl] monomer onto porous polyethylene@ film using ionising radiation in presence of crosslinking agent
PR - JP19950260691 19950913
PN - JP9077900 A 19970325 DW 199722 C08J9/22 007pp
PA - (TOFU) TONEN KAGAKU KK
IC - C08J9/22
AB - J09077900 5-30 wt.% of acryl monomer is graft polymerised onto a surface of a porous film of a polyethylene including more than 1 wt.% of a component of more than 7×10^5 wt. average molecular wt., in presence of a crosslinking agent, by ionisation radiation treatment.
- USE - Used for a base of a thin film electrolyte for a fuel battery, and a separator for a battery.
- (Dwg. 0/0)
OPD - 1995-09-13
AN - 1997-241854 [22]

● PAJ / JPO

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PD - 1997-03-25
AP - JP19950260691 19950913
IN - KAIMAI NORIMITSU; MIYASAKA KENJI; IZUMI YUZO
PA - TONEN CHEM CORP
TI - PRODUCTION OF HYDROPHILIC POLYETHYLENE FINELY POROUS FILM
AB - PROBLEM TO BE SOLVED: To obtain a hydrophilic polyethylene finely porous film useful as a separator for a battery, excellent in affinity for a water-soluble solution system, low in a coefficient of gas permeability, excellent in liquid retention, low in electric resistance and excellent in ionic conduction, by subjecting a specific amount of an acrylic monomer to graft polymerization treatment in the presence of a cross-linking agent on a finely porous film.
- SOLUTION: (B) An acrylic monomer in an amount of 5-30wt.% is subjected to graft polymerization by ionizing radiation in the presence of (A) a cross- linking agent (preferably divinylbenzene or trimethylolpropane methacrylate) on the surface of pores of a finely porous film comprising a polyethylene containing ≥ 1 wt.% of a component having $\geq 7 \times 10^5$ weight-average molecular weight and the surface of the film. The amount of the component A is 0.1-10vol.% based on the volume of the component B and the graft polymerization is preferably carried out in a reaction solution comprising 0.1-50wt.% of the component B and 99.1-50wt.% of a mixture of water and an alcohol (volume ratio 90/100-50/50).
I - C08J9/22